

Ariful Islam Emon

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Education

MS in Data Science (Expected: May 2026) University of Houston – Clear Lake, Texas

MS in Computer Science (2016) IBAIS University, Dhaka, Bangladesh

Bachelor of Business Administration in Finance (2011) IBAIS University, Dhaka, Bangladesh

Skills

Programming	Python (scikit-learn, PyTorch, TensorFlow, pyspark), SQL, R, C#, VB, php.
Database	PostgreSQL, MySQL, SQL Server, MongoDB.
Data Processing	Power BI, Tableau, Hadoop, EDA, Data wrangling, ETL / ELT pipelines.
Machine Learning	NLP (tokenization, embeddings), LLMs, Prompt engineering.
Generative AI	(fine-tuning awareness), AWS data storage, Docker (sandbox).

Experience

Student Research Assistant. Supervisor: Prof. Pavan Poudel (Ph.D), CSE, **UHCL**. *From Nov 2025 & continuing.*

- Developing stable centralized scheduling algorithms for transactional memory execution.

Student Assistant III (OIT), Academic Computing (UHCL). *From Jan 2025 to Oct 2025.*

- Provide front-line technical support for computer lab.
- Assist faculty and students with troubleshooting data-related and IT issues.

Deputy Manager, IT, Ekushey Television Ltd. (Bangladesh). *From Oct 2009 to Mar 2024.*

- Developed in house software and web portals.
- Design and optimize SQL databases to store and manage large datasets for internal operations.
- Developed and deployed real-time data visualization dashboards for broadcasting contents.
- Leading the IT team.

Projects

Hadoop and map-reduce implementation. <https://github.com/emonbd/Hadoop-and-Map-Reduce>

Time series analysis for forecasting natural disaster. <https://github.com/emonbd/timeseriesanalysis>

Android app for watching Ekushey TV live streaming. (ETV Live – Google Play).

Developed HR, Sales, Newsroom control software (VB, C#, MS SQL Server) for Ekushey TV.

Development and optimization of official news portal of Ekushey Television Ltd. www.ekushey-tv.com